

AMENDMENTS TO THE SPECIFICATION

Please amend the specification as follows:

Please replace the paragraph at page 1, lines 14-23, with the following:

Coaxial resonators can provide improved Q-values over other resonator construction techniques. Figure 1 is a side elevation of a typical coaxial resonator 100 of conventional construction. The Figure 1 resonator includes an inner conductor 102 placed within a cavity 104 that is formed from an enclosure having sidewalls 106, a bottom wall 108, and a top wall 110. The interior surface 111 of the enclosure cavity 104 is conductive. The inner conductor 102 is attached to the enclosure at the bottom wall 108, thereby providing an electric short-circuit path between the ~~cavity enclosure~~ enclosure cavity 104 and the inner conductor 102. The free end 112 of the inner conductor 102 is an open-circuit, providing capacitive coupling between the inner conductor and the interior surface 111 of the ~~cavity enclosure~~ enclosure cavity.

Please replace the paragraph on page 13, lines 1-21, with the following:

Figure 13 is a cross section of another embodiment of the calibration tool. In the Figure 13 embodiment of the calibration tool 610', there is an opening 620' in the calibration tool 610' adapted to receive a retractable support 652. The retractable support 652 is used to ~~located~~ locate the expanding tool 608 a desired distance from the stepped surface 624 of the calibration tool 610'. When used in making planar flanges on an inner conductor of a coaxial resonator, the support 652 is positioned to accept the expanding tool 608. As the conductive body 602 is pressed over the expanding tool 608, the support 652 exerts sufficient force to maintain the expanding tool 608 in a desired position. After the conductive body 602 has been flanged a desired amount the expanding tool 608 is not removed. The guide tool 606 is then pressed down onto the flanged area of the conductive body 602. The pressing force of the guide tool 606 used to form a planar transverse surface is sufficient to overcome the force exerted by the support 652, and the expanding tool 608 moves down into the opening 620' of the calibration tool 610'. The movement of

the expanding tool 608 down into the opening 620' permits flattening the flange into a desired transverse planar surface. The support 652 can be, for example, a spring, a pneumatic electric or magnetic actuator, or other device that can hold the expanding tool in a desired location during the pressing of the conductive body 602 to form a desired flange and then to allow the expanding tool to move out of the way during the pressing of the guide tool to form a planar surface. The retractable calibration tool 610' can be used in place of the tool 610 shown in Figures 9B-9E and 12. A similar substitution applies for the calibration tools in the following description.

Please replace the paragraph on page 24, line 17, to page 25, line 3, with the following:

Figure 31 is a flow diagram of a technique of flanging an array of conductive bodies and attaching the array of conductive bodies as inner conductors in at least one cavity in a single procedure. Process flow begins in block 1602, and at block 1604 a tooling plate that includes an array of flanging tools is positioned in a press. At block 1606 a resonator housing or body that includes at least one cavity is placed over the array of flanging tools such that a flanging tool is inside one or more of the cavities. Process flow continues to block 1608, where a plurality of conductive bodies, each with a first and second end, are inserted through a plurality of holes in the corresponding resonator body cavity walls. The hole in each cavity wall corresponds to the location of the flanging tools so that each flanging tool enters an opening in the first end of an associated conductive body. Flow continues to block 1610.

REMARKS

Any fees that may be due in connection with this application throughout its pendency may be charged to Deposit Account No. 50-1213.

The specification is amended to correct obvious typographical errors. In particular, the paragraph on page 1, lines 14-23, is amended to use the phrase "enclosure cavity" more consistently. The paragraph on page 13, lines 1-21, is amended to replace the word "located" with the word --locate-- for grammatical clarity. The paragraph on page 24, line 17, to page 25, line 3, is amended to add the word --of-- for grammatical clarity.

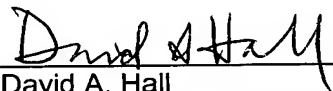
Claims 14 and 18 are amended to correct obvious typographical errors. Claim 14 is amended to add the inadvertently omitted word --that-- for grammatical clarity. Claim 18 is amended to replace the word "us" with the word --use-- for grammatical clarity. No new matter has been added.

In view of the amendments and above remarks, entry of the amendments and examination of the application on the merits are respectfully requested.

Respectfully submitted,

HELLER EHRMAN WHITE & McAULIFFE LLP

By:


David A. Hall
Registration No. 32,233

Attorney Docket No. 21860-6196
Address all correspondence to:
David A. Hall
HELLER EHRMAN WHITE & McAULIFFE, LLP
4350 La Jolla Village Drive, Suite 600
San Diego, CA 92122-1246
Telephone: (858) 450-8400
Facsimile: (858) 587-5360
Email: dhall@hewm.com

SD 634289 v1 (21860.6196)